



## PROPERTIES

**COLOR:** 30-90 White; 30-91 Gray

**APPLICATION CONSISTENCY:**

Trowel, glove, or airless spray.

**AVERAGE WEIGHT/U.S. GALLON (ASTM D 1475):**

11.5 pounds (1.38 Kg/l)

**AVERAGE NON-VOLATILE (ASTM D 1644):**

59% by volume (71% by weight)

**COVERAGE RANGE (FSTM 71):**

(Subject to the nature of material being coated). Wet coverages shown below are for smooth non-porous surfaces. Porous or rough surfaces will require higher gallonage to attain required dry thickness. 4-6 gallons per 100 square feet.

6 gal: (2.4 l/m<sup>2</sup>) .096 in. wet thickness (2.4 mm)

4 gal: (1.6 l/m<sup>2</sup>) .064 in. wet thickness (1.6 mm)

**DRYING TIME 73°F (23°C) 50% RH (ASTM 1640):**

To Touch: 4 hours

Through: 24 hours

**SERVICE TEMPERATURE LIMITS (FSTM 70):**

(Temperature at coated surface) Minus 20°F to 180°F  
(-29°C to 82°C)

**WATER VAPOR PERMEANCE:**

ASTM E 96 Procedure B, 0.013 perms (0.009/metric perms) at 43 mils dry (1.09 mm)

ASTM F 1249, 0.08 perms (0.05 metric perms) at 37 mils dry (0.94 mm). Tested at 100°F (38°C) and 90% RH.

**WET FLAMMABILITY (ASTM D 3278):**

Flash point: None to boiling, 212°F (100°C).

**SURFACE BURNING CHARACTERISTICS**

**(ASTM E 84):**

Flame Spread: 5.3

Smoke Developed: 25.1

Tested at coverage rate of 25 sq. ft. per gal. (0.61m<sup>2</sup>/l).

Applied to 1/4 inch (6.4 mm) inorganic reinforced cement board. The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

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## FOSTER VAPOR-SAFE® MASTIC

**FOSTER VAPOR-SAFE MASTIC** is a high solids water base, fire resistive, flexible vapor barrier finish for most types of thermal insulation, including polystyrene foam. It may be used over dry concrete, finishing cement, and most metals.

**VAPOR-SAFE MASTIC** is non-flammable when wet and has a mild latex "paint type" odor. It is designed for heavy duty/industrial use on pipes, vessels, ducts, and equipment operating below ambient temperatures. It may also be used indoors.

**VAPOR-SAFE MASTIC** has the water resistance and low water vapor permeance normally found only in solvent based products. It can be used in high humidity environments, and greatly retards water vapor permeation.

**VAPOR-SAFE MASTIC** is ideal for vapor sealing ASJ, FRK, and FSK jackets and board facings at joints, laps and over staple and weld pin punctures. It is an excellent duct board closure sealant. Do not exceed 1/8" (3.2 mm) wet film thickness.

**VAPOR-SAFE MASTIC** conforms with current USDA requirements regarding use in meat and poultry processing areas under federal inspection. Letter of certification is available upon request.

**VAPOR-SAFE MASTIC** contains no asbestos, lead, mercury, or mercury compounds.

**VAPOR-SAFE MASTIC** meets NFPA 90A and 90B 25/50 requirements.

**VAPOR-SAFE MASTIC** meets the requirements of Military Specification MIL-C-19565C, Type II.

**LIMITATIONS**

Store and apply between 40°F (4°C) and 100°F (38°C), protect from freezing until dry.

To resist rain washoff, allow at least 8-12 hours drying time above 50°F (10°C), with a relative humidity of 50%. Higher humidity and/or lower temperature may retard drying.

Always select Vapor-Safe Mastic in the white color for use over Polystyrene on outdoor installations.

Always test foil and paper facings for acceptable adhesion before using.

Outdoor horizontal surfaces must always drain completely. A pitch of at least 1/4" per foot (2 cm/m) is recommended. After long term outdoor exposure 30-90 may weather to an off-white color.

# APPLICATION GUIDE FOR FOSTER VAPOR-SAFE® MASTIC 30-90

## MATERIAL PREPARATION

DO NOT THIN. Apply only to clean, dry, oil free surfaces. Keep container closed when not in use. Stirring is usually not necessary.

## APPLICATION

To prevent water vapor and moisture infiltration, proper and complete flashing is required. Follow flashing specifications.

## HEAVY DUTY/INDUSTRIAL OUTDOOR

1. Apply a tack coat of Foster Vapor-Safe Mastic (color as selected) at 2 gallons per 100 square feet (0.8 l/m<sup>2</sup>).
2. Embed Foster MAST-A-FAB white membrane into the wet tack coat. Smooth membrane to avoid wrinkles and overlap all seams at least two inches (5 cm). Apply finish coat of Vapor-Safe Mastic, within 1/2 hour after the tack coat application, at 4 gallons 100 square feet (1.6 l/m<sup>2</sup>).
3. This application shall provide a minimum dry film thickness of 57 mils (1.4 mm).

Over cellular glass insulation, increase the coverage to 7 gallons per 100 square feet (2.9 l/m<sup>2</sup>).

## INDOOR AND LIGHT DUTY OUTDOOR

Apply as above except that the finish coat shall be 2 gallons per 100 square feet (0.8 l/m<sup>2</sup>) and the minimum dry film thickness shall be 37 mils (0.9 mm).

## MOISTURE BARRIER SEALER

1. Where required at all fittings and at specified intervals of straight-run pipe insulation, apply Foster Vapor-Safe Mastic at 1/16 inch (1.6 mm) thick to all butt joints of pipe insulation and onto the bore of the insulation for a minimum of two inches (5 cm) from the joint.
2. Position insulation, press firmly into place making certain that a complete unbroken seal is obtained.

## TROWEL

Use clean steel trowel. Apply each coat in full thickness before initial set. Avoid excessive troweling.

## BRUSH OR GLOVE

Use a good brush (suitable for water based paints), making strokes as long as possible over the surface. Apply with full brush and spread out evenly. Do not overwork.

## SPRAY

Vapor-Safe Mastic may be airless spray applied. For spray equipment information, please consult Airless Spray Recommendations or contact your Spray Equipment Supplier. Average Viscosity Range: 100,000 -120,000 cps. Corrosion resistant pumps and fittings are suggested.

## CLEAN-UP

Use fresh water to clean brushes and equipment before product dries. Dry product may be removed with hot soapy water (with ammonia added) or strong solvents such as chlorinated solvent (non-flammable) or xylol (flammable).

## DATA REPORTED FROM ASTM E84 FIRE TEST (TUNNEL TEST)

COATING, GENERAL PURPOSE	
H.B. Fuller Company	
	Surface Burning Characteristics
	1/4 inch (6.4 mm) Inorganic
	Reinforced Cement Board
Surface Flame Spread	5.3
Smoke Developed	25.1
Number of Coats	2
Rate per Coat (sq. ft. per gal.)	50



## CUSTOMER SERVICE—800-231-9541 OR 800-338-2975

IMPORTANT: Specialty Construction Brands, Inc. warrants that each of its products will be manufactured in accordance with the specifications in effect on the date of manufacture. WE MAKE NO OTHER WARRANTIES AND EXPRESSLY DISCLAIM ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. OUR ACCEPTANCE OF ANY ORDERS FOR THE PRODUCT IS EXPRESSLY CONDITIONAL UPON PURCHASER'S ASSENT TO THE TERMS ON THE APPLICABLE INVOICE.

ADEQUATE TESTS: The information contained herein we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be performed by you to determine if this product meets all of your requirements. The warranted shelf life of our products is six months from date of shipment to the original purchaser.

For industrial use only. Keep out of reach of children.

Consult Material Safety Data Sheet and container label for further information.